

- 6 Hydrodynamic coupling
- 7 Bridging coupling
- 8 Intermediate gear wheel
- 9 Steering differential
- 10, 10' Zero shaft
- 11 Driven shaft
- 12 Step-up stage
- 13 Hydrodynamic coupling
- 14 Bridging coupling
- 15 Coupling
- 16 Coupling
- 17 Toothed wheel
- 18 Toothed wheel
- 19 Reversing gear

Claims

1. Superposition steering system for tracklaying or wheeled vehicles with nonpivoting wheels with a drive system (1) and a zero shaft (10, 10') to transfer drive power from one drive side to another via at least one steering differential gear (9), wherein the zero shaft (10, 10') can be driven by a combination of a power fraction, branched off from the drive system (1), and at least one electric motor (2, 2').

2. Superposition steering system according to Claim 1, characterized in that for the transfer of the steering power fraction, branched off from the drive system (1), at least one hydrodynamic steering coupling (4, 6; 13) or at least one mechanically controllable load-switching coupling is provided.

3. Superposition steering system according to one of the preceding claims, characterized in that as electric motor (2, 2'), one equipped with several electric circuits, independent of one another, or several electric motors are provided.

4. Superposition steering system according to Claim 2, characterized in that for each direction of rotation of the zero shaft (10, 10'), at least one hydrodynamic steering coupling (4, 6) or at least one mechanically controllable switching coupling is provided.

5. Superposition steering system according to one of the preceding claims, characterized in that to bridge the hydrodynamic steering couplings (4, 6; 13), mechanical couplings (5, 7; 14) are provided.

6. Superposition steering system according to one of the preceding claims, characterized in that the zero shaft (10, 10') is led centrally through the steering unit or arranged along side it.